

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P298606

Luminaire Tested: **14FPX-30-L840-HE-HCD-SWPD1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P298606  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-179-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14FPX-30-L840-HE-HCD-SWPD1  
Description: 1x4 FPX SERIES LED PANEL, 4000K CCT AND 80CRI  
Light Source: -  
Ballast/Driver: -

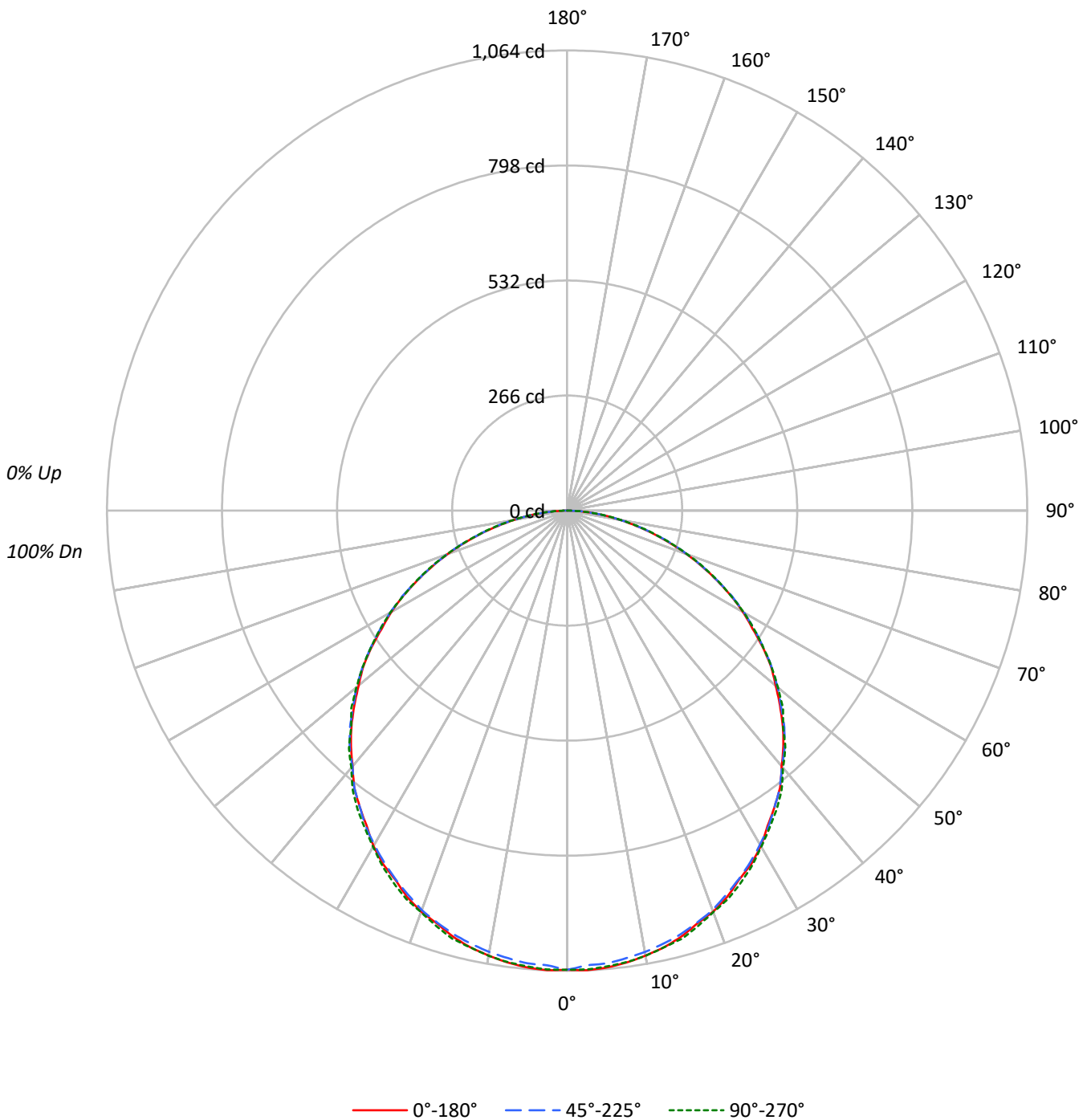
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3053.6 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.2402729368818  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

TEST NUMBER: P298606  
CATALOG NUMBER: 14FPX-30-L840-HE-HCD-SWPD1

### Luminous Intensity Polar Plot





TEST NUMBER: P298606

CATALOG NUMBER: 14FPX-30-L840-HE-HCD-SWPD1

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2858	2858	2858
5°	2865	2839	2858
10°	2855	2832	2856
15°	2841	2825	2856
20°	2826	2815	2830
25°	2794	2790	2820
30°	2783	2772	2789
35°	2746	2746	2774
40°	2711	2713	2727
45°	2685	2702	2688
50°	2634	2658	2663
55°	2594	2606	2603
60°	2527	2544	2541
65°	2435	2443	2451
70°	2318	2323	2327
75°	2143	2163	2170
80°	1923	1953	1962
85°	1572	1649	1689



TEST NUMBER: P298606

CATALOG NUMBER: 14FPX-30-L840-HE-HCD-SWPD1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.3	3.3
10°-20°	287.3	9.4
20°-30°	435.3	14.3
30°-40°	525.2	17.2
40°-50°	547.0	17.9
50°-60°	496.3	16.3
60°-70°	379.8	12.4
70°-80°	220.5	7.2
80°-90°	61.7	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	823.0	27.0
0°-40°	1348.2	44.2
0°-60°	2391.5	78.3
0°-90°	3053.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3053.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1061	1057	1051	1057	1058	101
15°	1020	1017	1014	1020	1025	288
25°	941	944	940	947	950	435
35°	836	838	836	841	844	523
45°	706	711	710	713	706	543
55°	553	556	555	557	555	493
65°	382	384	384	384	385	378
75°	206	207	208	210	209	218
85°	51	52	53	55	55	60
90°	0	0	0	0	0	



TEST NUMBER: P298606

CATALOG NUMBER: 14FPX-30-L840-HE-HCD-SWPD1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1061.9	1061.9	1061.9	1061.9	1061.9
2.5°	1063.8	1058.0	1052.3	1061.2	1061.9
5°	1060.6	1056.8	1051.0	1056.8	1058.0
7.5°	1054.2	1049.1	1044.0	1053.6	1052.9
10°	1044.7	1042.8	1036.4	1043.4	1045.3
12.5°	1034.5	1031.3	1026.2	1031.3	1034.5
15°	1019.9	1017.3	1014.1	1019.9	1025.0
17.5°	1000.8	1002.1	998.9	1005.2	1007.1
20°	986.8	984.9	983.0	988.1	988.1
22.5°	967.1	969.0	961.3	970.2	972.1
25°	941.0	943.5	939.7	947.3	949.9
27.5°	921.3	921.3	916.8	922.5	925.7
30°	895.8	895.2	892.0	895.8	897.7
32.5°	863.4	870.4	866.5	872.3	870.4
35°	836.0	838.5	836.0	841.1	844.3
37.5°	808.6	809.9	808.0	811.2	814.4
40°	771.7	776.2	772.4	778.1	776.2
42.5°	739.9	744.4	744.4	745.7	746.9
45°	705.6	710.7	710.0	713.2	706.2
47.5°	667.4	674.4	671.2	677.6	676.9
50°	629.2	636.9	635.0	633.7	636.2
52.5°	594.9	597.4	596.8	596.8	596.1
55°	552.9	556.1	555.4	556.7	554.8
57.5°	508.3	514.7	514.1	514.1	514.1
60°	469.5	472.1	472.7	472.1	472.1
62.5°	427.5	428.8	430.1	426.9	426.9
65°	382.4	383.6	383.6	384.3	384.9
67.5°	337.2	341.0	339.1	339.1	341.0
70°	294.6	295.2	295.2	295.2	295.8
72.5°	248.8	250.0	252.6	253.2	251.3
75°	206.1	206.8	208.0	210.0	208.7
77.5°	163.5	164.8	166.7	167.3	168.0
80°	124.1	125.3	126.0	127.9	126.6
82.5°	87.8	88.4	88.4	89.7	90.3
85°	50.9	51.5	53.4	54.7	54.7
87.5°	21.6	22.3	21.6	21.6	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)